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HOUSE BILL NO. 518

House Amendments in [] - January 21, 2008

A BILL to amend and reenact §§ 54.1-400 and 54.1-402 of the Code of Virginia, relating to exemptions from licensure by the Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and Landscape Architects for onsite soil evaluators licensed by the Board for Waterworks and Wastewater Works Operators and Onsite Sewage System Professionals.

Patron Prior to Engrossment—Delegate Suit

Referred to Committee on Health, Welfare and Institutions

Be it enacted by the General Assembly of Virginia:**1. That §§ 54.1-400 and 54.1-402 of the Code of Virginia are amended and reenacted as follows:**

§ 54.1-400. Definitions.

As used in this chapter unless the context requires a different meaning:

"Architect" means a person who, by reason of his knowledge of the mathematical and physical sciences, and the principles of architecture and architectural design, acquired by professional education, practical experience, or both, is qualified to engage in the practice of architecture and whose competence has been attested by the Board through licensure as an architect.

The "practice of architecture" means any service wherein the principles and methods of architecture are applied, such as consultation, investigation, evaluation, planning and design, and includes the responsible administration of construction contracts, in connection with any private or public buildings, structures or projects, or the related equipment or accessories.

"Board" means the Board for Architects, Professional Engineers, Land Surveyors, Certified Interior Designers and Landscape Architects.

"Certified interior designer" means a design professional who meets the criteria of education, experience, and testing in the rendering of interior design services established by the Board through certification as an interior designer.

"Certified landscape architect" means a person who, by reason of his special knowledge of natural, physical and mathematical sciences, and the principles and methodology of landscape architecture and landscape architectural design acquired by professional education, practical experience, or both, is qualified to engage in the practice of landscape architecture and whose competence has been attested by the Board through certification as a landscape architect.

The "practice of landscape architecture" by a certified landscape architect means any service wherein the principles and methodology of landscape architecture are applied in consultation, evaluation, planning (including the preparation and filing of sketches, drawings, plans and specifications) and responsible supervision or administration of contracts relative to projects principally directed at the functional and aesthetic use of land.

"Improvements to real property" means any valuable addition or amelioration made to land and generally whatever is erected on or affixed to land which is intended to enhance its value, beauty or utility, or adapt it to new or further purposes. Examples of improvements to real property include, but are not limited to, structures, buildings, machinery, equipment, electrical systems, mechanical systems, roads, and water and wastewater treatment and distribution systems.

"Interior design" by a certified interior designer means any service rendered wherein the principles and methodology of interior design are applied in connection with the identification, research, and creative solution of problems pertaining to the function and quality of the interior environment. Such services relative to interior spaces shall include the preparation of documents for nonload-bearing interior construction, furnishings, fixtures, and equipment in order to enhance and protect the health, safety, and welfare of the public.

"Land surveyor" means a person who, by reason of his knowledge of the several sciences and of the principles of land surveying, and of the planning and design of land developments acquired by practical experience and formal education, is qualified to engage in the practice of land surveying, and whose competence has been attested by the Board through licensure as a land surveyor.

The "practice of land surveying" includes surveying of areas for a determination or correction, a description, the establishment or reestablishment of internal and external land boundaries, or the determination of topography, contours or location of physical improvements, and also includes the planning of land and subdivisions thereof. The term "planning of land and subdivisions thereof" shall include, but not be limited to, the preparation of incidental plans and profiles for roads, streets and sidewalks, grading, drainage on the surface, culverts and erosion control measures, with reference to

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59 existing state or local standards.

60 "Professional engineer" means a person who is qualified to practice engineering by reason of his
61 special knowledge and use of mathematical, physical and engineering sciences and the principles and
62 methods of engineering analysis and design acquired by engineering education and experience, and
63 whose competence has been attested by the Board through licensure as a professional engineer.

64 The "practice of engineering" means any service wherein the principles and methods of engineering
65 are applied to, but are not necessarily limited to, the following areas: consultation, investigation,
66 evaluation, planning and design of public or private utilities, structures, machines, equipment, processes,
67 transportation systems and work systems, including responsible administration of construction contracts.
68 The term "practice of engineering" shall not include the service or maintenance of existing electrical or
69 mechanical systems.

70 "*Residential wastewater*" means sewage (i) generated by residential or accessory uses, not containing
71 storm water or industrial influent, and having no other toxic, or hazardous constituents not routinely
72 found in residential wastewater flows, or (ii) as certified by a professional engineer.

73 "Responsible charge" means the direct control and supervision of the practice of architecture,
74 professional engineering, or land surveying.

75 § 54.1-402. Further exemptions from license requirements for architects, professional engineers, and
76 land surveyors.

77 A. No license as an architect or professional engineer shall be required pursuant to § 54.1-406 for
78 persons who prepare plans, specifications, documents and designs for the following, provided any such
79 plans, specifications, documents or designs bear the name and address of the author and his occupation:

80 1. Single- and two-family homes, townhouses and multifamily dwellings, excluding electrical and
81 mechanical systems, not exceeding three stories; or

82 2. All farm structures used primarily in the production, handling or storage of agricultural products or
83 implements, including, but not limited to, structures used for the handling, processing, housing or
84 storage of crops, feeds, supplies, equipment, animals or poultry; or

85 3. Buildings and structures classified with respect to use as business (Use Group B) and mercantile
86 (Use Group M), as provided in the Uniform Statewide Building Code and churches with an occupant
87 load of 100 or less, excluding electrical and mechanical systems, where such building or structure does
88 not exceed 5,000 square feet in total net floor area, or three stories; or

89 4. Buildings and structures classified with respect to use as factory and industrial (Use Group F) and
90 storage (Use Group S) as provided in the Uniform Statewide Building Code, excluding electrical and
91 mechanical systems, where such building or structure does not exceed 15,000 square feet in total net
92 floor area, or three stories; or

93 5. Additions, remodeling or interior design without a change in occupancy or occupancy load and
94 without modification to the structural system or a change in access or exit patterns or increase in fire
95 hazard; or

96 6. Electric installations which comply with all applicable codes and which do not exceed 600 volts
97 and 800 amps, where work is designed and performed under the direct supervision of a person licensed
98 as a master's level electrician or Class A electrical contractor by written examination, and where such
99 installation is not contained in any structure exceeding three stories or located in any of the following
100 categories:

101 a. Use Group A-1 theaters which exceed assembly of 100 persons;

102 b. Use Group A-4 except churches;

103 c. Use Group I, institutional buildings, except day care nurseries and clinics without life-support
104 systems; or

105 7. Plumbing and mechanical systems using packaged mechanical equipment, such as equipment of
106 catalogued standard design which has been coordinated and tested by the manufacturer, which comply
107 with all applicable codes. These mechanical systems shall not exceed gauge pressures of 125 pounds per
108 square inch, other than refrigeration, or temperatures other than flue gas of 300° F (150 degrees C)
109 where such work is designed and performed under the direct supervision of a person licensed as a
110 master's level plumber, master's level heating, air conditioning and ventilating worker, or Class A
111 contractor in those specialties by written examination. In addition, such installation may not be contained
112 in any structure exceeding three stories or located in any structure which is defined as to its use in any
113 of the following categories:

114 a. Use Group A-1 theaters which exceed assembly of 100 persons;

115 b. Use Group A-4 except churches;

116 c. Use Group I, institutional buildings, except day care nurseries and clinics without life-support
117 systems; or

118 8. The preparation of shop drawings, field drawings and specifications for components by a
119 contractor who will supervise the installation and where the shop drawings and specifications (i) will be
120 reviewed by the licensed professional engineer or architect responsible for the project or (ii) are

otherwise exempted; or

9. Buildings, structures, or electrical and mechanical installations which are not otherwise exempted but which are of standard design, provided they bear the certification of a professional engineer or architect registered or licensed in another state, and provided that the design is adapted for the specific location and for conformity with local codes, ordinances and regulations, and is so certified by a professional engineer or architect licensed in Virginia; or

10. Construction by a state agency or political subdivision not exceeding \$75,000 in value keyed to the January 1, 1991, Consumer Price Index (CPI) and not otherwise requiring a licensed architect, engineer, or land surveyor by an adopted code and maintenance by that state agency or political subdivision of water distribution, sewage collection, storm drainage systems, sidewalks, streets, curbs, gutters, culverts, and other facilities normally and customarily constructed and maintained by the public works department of the state agency or political subdivision; or

11. *Conventional and alternative onsite sewage systems receiving residential wastewater, under the authority of Chapter 6 of Title 32.1, designed by a licensed onsite soil evaluator, which utilize packaged equipment, such as equipment of catalogued standard design that has been coordinated and tested by the manufacturer, and complies with all applicable codes, provided (i) the flow is less than [~~100~~ 1,000] gallons per day; and (ii) if a pump is included, (a) it shall not include multiple downhill runs and must terminate at a positive elevational change; (b) the discharge end is open and not pressurized; (c) the static head does not exceed 50 feet; and (d) the force main length does not exceed 500 feet.*

B. No person shall be exempt from licensure as an architect or engineer who engages in the preparation of plans, specifications, documents or designs for:

1. Any unique design of structural elements for floors, walls, roofs or foundations; or

2. Any building or structure classified with respect to its use as high hazard (Use Group H).

C. Persons utilizing photogrammetric methods or similar remote sensing technology shall not be required to be licensed as a land surveyor pursuant to subsection B of § 54.1-404 or 54.1-406 to: (i) determine topography or contours, or to depict physical improvements, provided such maps or other documents shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination, or (ii) graphically show existing property lines and boundaries on maps or other documents provided such depicted property lines and boundaries shall only be used for general information.

Any determination of topography or contours, or depiction of physical improvements, utilizing photogrammetric methods or similar remote sensing technology by persons not licensed as a land surveyor pursuant to § 54.1-406 shall not show any property monumentation or property metes and bounds, nor provide any measurement showing the relationship of any physical improvements to any property line or boundary.

Any person not licensed pursuant to subsection B of § 54.1-404 or 54.1-406 preparing documentation pursuant to subsection C of § 54.1-402 shall note the following on such documentation: "Any determination of topography or contours, or any depiction of physical improvements, property lines or boundaries is for general information only and shall not be used for the design, modification, or construction of improvements to real property or for flood plain determination."

D. Terms used in this section, and not otherwise defined in this chapter, shall have the meanings provided in the Uniform Statewide Building Code in effect on July 1, 1982, including any subsequent amendments.